

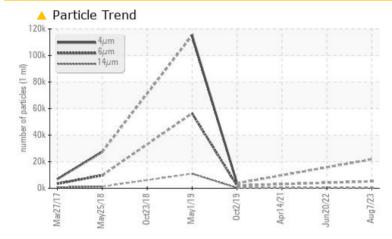
# **PROBLEM SUMMARY**

# KAESER SM 18 1393121 (S/N 1016)

Compressor

KAESER SIGMA (OEM) M-460 (--- QTS)

# COMPONENT CONDITION SUMMARY



## RECOMMENDATION

No corrective action is recommended at this time. The filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS								
Sample Status			ABNORMAL	ABNORMAL	ABNORMAL			
Particles >6µm	ASTM D7647	>1300	<u> </u>					
Particles >14µm	ASTM D7647	>80	<u> </u>					
Particles >21µm	ASTM D7647	>20	<u> </u>					
Particles >38µm	ASTM D7647	>4	<u> </u>					
Oil Cleanliness	ISO 4406 (c)	>/17/13	<u> </u>					

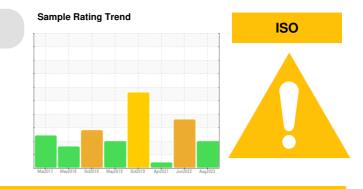
Customer Id: LINUPP Sample No.: KC108718 Lab Number: 05927853 Test Package: IND 2



To manage this report scan the QR code

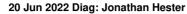
*To discuss the diagnosis or test data:* Doug Bogart +1 (800)237-1369 x4016 <u>dougb@wearcheckusa.com</u>

*To change component or sample information:* Customer Service +1 1-800-237-1369 <u>customerservice@wearcheck.com</u>



There are no recommended actions for this sample.

### **HISTORICAL DIAGNOSIS**



The filter change at the time of sampling has been noted. We were unable to perform a particle count due to a high concentration of particles present in this sample. We advise that you stop the unit and follow the water drainoff procedure for this component. We recommend an early resample in 500 hours to monitor this condition.All component wear rates are normal. Free water present. There is a high concentration of water present in the oil. Moderate concentration of visible dirt/debris present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

#### 14 Apr 2021 Diag: Doug Bogart

We recommend you service the filters on this component. Resample at the next service interval to monitor. We were unable to perform a particle count due to a high concentration of particles present in this sample.All component wear rates are normal. Moderate concentration of visible dirt/debris present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

# 02 Oct 2019 Diag: Don Baldridge

monitor this condition.All component wear rates are normal. There is a high amount of particulates present in the oil. There is a moderate concentration of water present in the oil. Excessive free water present. The AN level is acceptable for this fluid.





# view report

Oil and filter change at the time of sampling has been noted. We recommend an early resample in 500 hours to



# **OIL ANALYSIS REPORT**

# KAESER SM 18 1393121 (S/N 1016)

**Compressor** Fluid

KAESER SIGMA (OEM) M-460 (--- QTS)

# DIAGNOSIS

## Recommendation

No corrective action is recommended at this time. The filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

# Wear

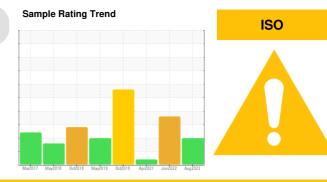
All component wear rates are normal.

# Contamination

There is a high amount of particulates present in the oil.

#### Fluid Condition

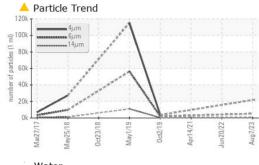
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

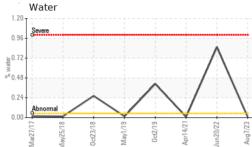


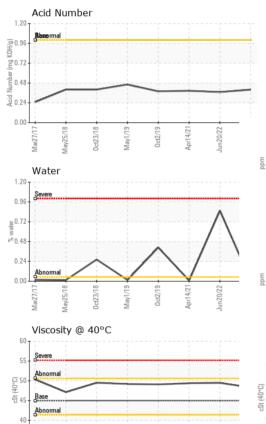
SAMPLE INFORM	<b>IATION</b>	method	limit/base	current	history1	history2
Sample Number		Client Info		KC108718	KCP49553	KCP35627
Sample Date		Client Info		07 Aug 2023	20 Jun 2022	14 Apr 2021
Machine Age	hrs	Client Info		93456	93168	92912
Oil Age	hrs	Client Info		0	2906	2636
Oil Changed		Client Info		N/A	Not Changd	N/A
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	2	4	1
Chromium	ppm	ASTM D5185m	>10	0	0	0
Nickel	ppm	ASTM D5185m	>3	<1	<1	<1
Titanium	ppm	ASTM D5185m	>3	0	0	0
Silver	ppm	ASTM D5185m	>2	0	<1	0
Aluminum	ppm	ASTM D5185m	>10	0	0	0
Lead	ppm	ASTM D5185m	>10	0	0	0
Copper	ppm	ASTM D5185m	>50	6	9	5
Tin	ppm	ASTM D5185m	>10	0	<1	0
Antimony	ppm	ASTM D5185m				0
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES	1º Iº	method	limit/base	current	history1	history2
Boron	nnm	ASTM D5185m	0	0	<1	12
Barium	ppm ppm	ASTM D5185m	90	0	0	0
		ASTM D5185m	90 0	0	0	0
Molybdenum Manganese	ppm ppm	ASTM D5185m	0	0	0	<1
Magnesium		ASTM D5185m	100	4	0	6
Calcium	ppm ppm	ASTM D5185m		4	0	0
Phosphorus		ASTM D5185m	0	۰ <1	2	4
Zinc	ppm	ASTM D5185m		24	2	4
	ppm					
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<1	<1	0
Sodium	ppm	ASTM D5185m		1	0	2
Potassium	ppm	ASTM D5185m	>20	<1	0	0
Water	%	ASTM D6304		0.008	▲ 0.855	0.009
ppm Water	ppm	ASTM D6304	>500	81.8	▲ 8550	99.2
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		21789		
Particles >6µm		ASTM D7647		<u> </u>		
Particles >14µm		ASTM D7647	>80	<u> </u>		
Particles >21µm		ASTM D7647	>20	<u> </u>		
Particles >38µm		ASTM D7647	>4	<u> </u>		
Particles >71µm		ASTM D7647	>3	0		
Oil Cleanliness		ISO 4406 (c)	>/17/13	<b>A</b> 22/20/16		
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	0.40	0.37	0.386



# **OIL ANALYSIS REPORT**







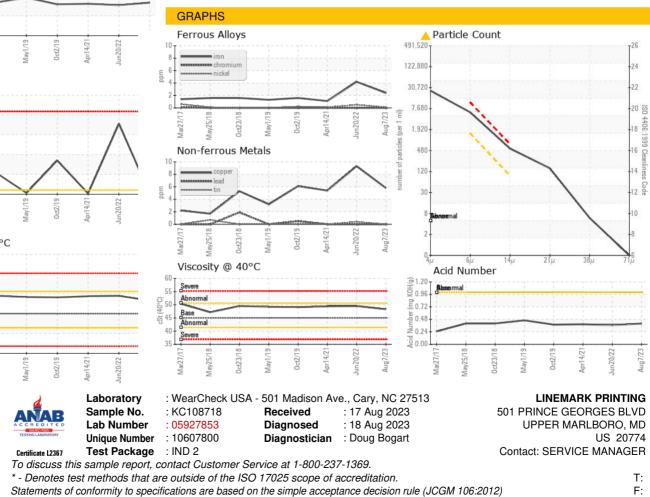
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scalar	*Visual	NONE	NONE	NONE	NONE
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scalar	*Visual	NORML	NORML	NORML	NORML
scalar	*Visual	>0.05	NEG	0.2%	NEG
scalar	*Visual		NEG	▲ 1.0	NEG
ES	method	limit/base	current	history1	history2
cSt	ASTM D445	45	48.3	49.5	49.4
	method	limit/base	current	history1	history2
			•		
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Contact/Location: SERVICE MANAGER ? - LINUPP